

1 now considered a necessity.

2 The need for broadband deployment in rural America
3 has arrived in Berkshire County.

4 Now that we have defined the needs in our serving
5 area, the solution is not as easy. As a small carrier,
6 serving a rural area, the business solution is a difficult
7 one.

8 The desire to build facilities is much greater
9 than the financial means to do so; therefore, small
10 companies are forced to run facilities in strategic areas
11 and lease facilities from larger carriers, where available.

12 Small carriers incur the expense of investing in
13 upgrades to switching equipment and the installation of new
14 equipment to accommodate new technology.

15 And once the technology is there, delivering the
16 service to the consumers can prove more difficult. New
17 technologies for residential consumers have distance
18 limitations.

19 DSL is a technology that provides high speed over
20 a existing copper plant; however, customers must be located
21 no more than 18,000 feet from the telephone company's
22 central office on unloaded cable to take advantage of it.
23 The cost to provide this service to customers in rural
24 outlying areas can prove costly.

25 Despite these obstacles, Richmond continues to

1 move forward with the deployment of DSL in Berkshire County.

2 And although there is no single, all-encompassing
3 solution for small companies, the following measures will
4 enhance efforts to take advantage of these advanced services
5 in rural areas: Establishing a separate rural exemption for
6 advanced service, accelerate depreciation rates for advance
7 service infrastructure investments in rural areas, be
8 authorized interstate rate of return to reflect rural
9 carriers, higher risks and cost of capital, and to rescind
10 and refrain from imposing any technological limitations on
11 small rural carriers, and to eliminate the restrictive cap
12 on the rural high cost support funds.

13 Similar considerations have been proposed to
14 Congress by several telecommunications organizations.
15 Richmond hopes that these proposals and other market
16 oriented deregulatory measures will help rural carriers do
17 what they do best, provide modern, affordable
18 state-of-the-art service to the rural communities of which
19 they are a vital part.

20 Richmond is currently deploying DSL, and we are
21 committed to staying in the telecommunications business and
22 serving our neighbors with advanced services.

23 In closing, I think Richmond is an excellent
24 example of success stories that exist all around us.

25 Thank you for your time.

1 THE HONORABLE JACK R. GOLDBERG: Thank you very
2 much for that, for your suggestions.

3 Part of this panel is to come up with some ideas
4 on how to solve some of these problems and you presented
5 some ideas for the Joint Board.

6 Next is Dr. Kenneth Gordon and the National
7 Economic Research Association.

8 Dr. Gordon is a former state regulator in both
9 Maine and Massachusetts and is uniquely qualified to discuss
10 some of these issues.

11 DOCTOR KENNETH GORDON: Thank you.

12 I'm going to shift gears a little bit and talk a
13 bit more about the framework within which this industry
14 operates; that is to say, I'm going to talk about some
15 regulatory issues, which, while they haven't been
16 highlighted this afternoon, nevertheless provide the context
17 within which what we're talking about takes place.

18 Let me confess to a bias, first of all. And the
19 bias is that regulation should focus on structures and
20 incentives and not on outcomes. So we should really be
21 trying to see how people are incented and what difficulties
22 they encounter.

23 I have a confession. While I'm a telecommuter, I
24 don't have a high-speed -- any high-speed connectivity. As
25 I thought about it before I came down here, I realized I had

1 called my telephone carrier, Bell Atlantic, and they were
2 not able to do DSL where I live in Windham, Maine.

3 Then I called my cable company, which is Adelphia,
4 and I had trouble finding somebody who even knew what I was
5 asking for back at the local office, and now I realize I
6 have no line of sight to Downtown Portland from my house, so
7 it may be a little bit of time before I get the kind of
8 connectivity we've been talking about.

9 And that leads me to my question: Does that mean
10 there is a public policy problem that I should be
11 approaching my regulator, whether it's Tom Welch, down there
12 at the other end, or Commissioner Powell, a little closer
13 here?

14 The short answer is, I don't think so, yet.

15 And I want to tell a bit why.

16 The setting that we are involved with is that
17 innovation pervades the telecom industry and the information
18 services industries worldwide. And there's a strong sense
19 that if you're not part of that, you're going to be left
20 behind economically, socially and perhaps in other ways.

21 But there is also very little certainty on how
22 that can best be achieved at the moment. What technologies
23 will be used, what service providers will you turn to, or
24 what combinations will you use, because we're pretty sure
25 that one size will not fit all.

1 This is not a situation in which administrative
2 direction or administrative decision making are at their
3 best. Rather, as the telecom information revolution
4 unfolds, the marketplace has to be the driver in deciding
5 when and how new technology should be deployed.

6 Competition can and should be used throughout the
7 industry. And I believe this option, market reliance, is as
8 applicable to rural areas as it is elsewhere.

9 So far as I know, being rural is not a recognized
10 market failure in economics, albeit some technologies may
11 have higher costs in rural areas, but high costs don't
12 constitute a market failure, either.

13 What is needed is to make markets work efficiently
14 everywhere, not just in rural areas.

15 And I have about six points I'd like to make in
16 that connection.

17 The first thing is that we really do have to have
18 some patience in this process. Revolutions in technology
19 rarely role out ubiquitously and overnight.

20 Rhetoric notwithstanding, it is not necessary, nor
21 is it desirable to do everything at once. And so
22 nonuniformity of service early on, I don't regard as a
23 problem per se. Technologies will be varied and will
24 receive trials in different places, where some will succeed
25 and some will fail. That's part of the learning process and

1 we subvert it at our peril. We don't know what the winners
2 are going to be.

3 Where, for example, is video dial tone? As of
4 late, something that people were pretty excited about not so
5 very long ago.

6 Economics teaches us that the efficient pattern of
7 diffusion of new technologies is typically gradual at first,
8 then picking up speed to relatively rapid adoption, and then
9 plateauing off at some level. I would suggest we're still
10 at a very early stage. And I'm not at all sure what saying
11 diffusion is slow even means.

12 Secondly, we need to have recognition that price
13 matters, and that to rely on markets also is relying on
14 prices that signal the true costs of providing services.
15 Prices need to be aligned with costs, even in rural areas.
16 Then and only then will the technologies that are best
17 suited, serving these areas, have a good chance to work.

18 Underpricing the competition will work. It will
19 lead to the underpriced service succeeding.

20 A critical requirement for a strong future,
21 another critical requirement for a strong future has already
22 been mentioned, but I'll repeat it, the policies should be
23 technologically neutral, and they should be provider
24 neutral.

25 Cable, telephone, wireless, any and all of those

1 are likely to be pieces of the solution, and that's
2 happening on a worldwide basis.

3 I saw a piece in the Economist just the other day
4 about wireless being diffused in Morocco, of all places, at
5 a rate of quadrupling in just six months to some 800,000,
6 about to overtake their wire line service in very fast
7 fashion.

8 Wireless does have broadband capability, as we've
9 heard, and I think it's likely to be a part of solution in
10 rural areas.

11 Thirdly, preserving correct infrastructure
12 investment incentives also means cost based pricing
13 everywhere, at the wholesale level, from charging the
14 correct price for information service provider bound
15 traffic, as Massachusetts to its credit, has tried to do, to
16 proper wholesale discounts on resell and UNIs. All of those
17 things are important in this process.

18 Fourth, keeping universal service narrowly focused
19 on services that are broadly acknowledged to be essential
20 components in our society, and on addressing that relatively
21 small group that cannot afford access to what we all agree,
22 really is essential.

23 In a dynamic, competitive market, we cannot afford
24 to layer on a huge tax or subsidy burden; and that is what
25 universal service is, regardless of how it is collected and

1 distributed and labeled.

2 Moreover, I would just have to say at the moment,
3 I think we're relatively clueless about what the specifics
4 of universality should be in the advanced services area. It
5 just isn't clear.

6 Fifthly, isolating one large segment of the
7 industry under an asymmetrical regulatory regime is very
8 unlikely to foster the goal of efficient infrastructure
9 deployment.

10 And here I am referring to the long-distance
11 exclusion that we need to get past as quickly as we can,
12 subsidized UNI availability, that should sunset in my
13 opinion. And I would also say the same about the resale
14 discount. It needs to sunset at some point.

15 Finally, we need to keep up the spectrum policies
16 that have become ever more flexible and helped enormously in
17 deploying new services.

18 The FCC, I have to say, has done a great job on
19 this, compared to what I thought possible when I first
20 joined the Office of Plans & Policy in 1980. That was
21 20 years and we couldn't get the Commissioners to use words
22 like auction or market in the same paragraph with spectrum,
23 but you've come a long, long way from that, and it's been a
24 very, very good thing for this whole process. And I think
25 it'll be especially so for rural areas.

1 To conclude, we need a dynamic process of
2 innovation to be allowed to move forward, supported by
3 clear investment incentives, clear opportunities for private
4 risk bearing, continued detailed heavy regulation simply
5 cannot provide that.

6 THE HONORABLE JACK R. GOLDBERG: Thank you very
7 much.

8 Dr. Michel Guite is from Vermont Telephone. He's
9 going to try to sell us his 39.95 package.

10 DOCTOR MICHEL GUTE: Okay, I'm the last speaker
11 of the day ---

12 FROM THE AUDIENCE: No, you're not.

13 FROM THE AUDIENCE: One more.

14 DOCTOR MICHEL GUTE: Okay, well, instead of my
15 six minutes, I'm going to try to get it done by three
16 minutes, so when you hold up your card, I hope I'm going to
17 be done.

18 Our ad says, that is in the Vermont newspapers for
19 the last couple of months and for the next couple of months.
20 So it's full page, it says: VTel DSL 39.95 per month.
21 Fastest. Coolest. Cheapest!

22 VTel is the first telephone company in Vermont to
23 offer high-speed DSL for blazingly fast data. Ideal for
24 internet, and it saves you money. Sign-up by June 1 -- it's
25 extended to July 1, by the way -- and get a free modem, free

1 activation and VTel cap with the logo "VTel, A Phone Company
2 Doing Cool Things."

3 So what to me is really intriguing about this is
4 notwithstanding all the analysis about where demand is and
5 what incentives are needed and the like, it's just as clear
6 as could be in our 14 towns and villages in Vermont, that
7 there is a prairie fire of demand going on. It's just not
8 going to stop. You can incent people, you cannot incent
9 them, it's almost that everyone here, including me and
10 Julie, who is with me from Vermont Telephone back there, are
11 irrelevant to the process. It's just there's so much demand
12 for high bandwidth that it's going ahead almost regardless.

13 If we didn't do it, the cable operator would do
14 it. The cable operator's pricing is going to be very
15 similar to ours. We're offering now a half-million bits per
16 second for \$40 a month and it'll soon be up to a million
17 bits and the 2 million and 3 and 4 million easily within the
18 next two years or so.

19 The demand in our 14 towns is pretty well
20 universal across the board. There's nowhere where we're not
21 getting hundreds of cards and letters, asking for the
22 service. We're putting in between 40 and 100 a day, which
23 for a company with 20,000 customers is really an awful lot
24 of demand. Our trucks are going nonstop. We've got people
25 coming in one after the other, picking up free modems. The

1 customers just love it.

2 So rural Vermont, where our customer base divides
3 into three categories, is a very deep demand location, and
4 the demand there isn't really too different to Downtown
5 Lowell. The three categories are, I'll tell you, the two
6 resistors and then the takers.

7 One set of resistors out of our 20,000 customers,
8 probably a thousand lines are people that have second homes
9 there and that want us to be back in the 1920s or 1930s. So
10 when we gave up party lines, the last 400 people that had
11 them were people like, say, the Chairman of Harvard Business
12 School, who said, what, getting rid of a party line, that's
13 outrageous.

14 (Laughter.)

15 DOCTOR MICHEL GUITE: The second group of
16 naysayers are -- and I understand these and I'm sympathetic
17 with these, are the elderly people who are really, really
18 very concerned with cost. There's some number of people,
19 not so many, but perhaps 10 percent of our customers, who
20 really are tremendously economically limited, and we get
21 2,000 a month coming in to pay their bill by hand to save a
22 35-cent stamp, and to those people, anything that looks like
23 it could contribute to cost really hurts them. And I don't
24 know how you solve that problem.

25 But leaving aside those two groups, the huge bulk

1 of the customer base are really eager to get high-quality,
2 moderately priced services, and they're loyal customers,
3 they're good customers and they really respond to the
4 innovations that we're out there and providing.

5 I'd like to mention that Peter Bluhm out here with
6 our Public Service Board, who is in the back, can you kind
7 of raise you hand, and John Sayles with the Department of
8 Public Service, really incented us in a sort of a complex
9 way that we could spend time about later, if you wanted to,
10 to accelerate our plans for this, and it really did work out
11 well.

12 Our total costs per month for customer service,
13 not for just DSL, but for Adeltone (phonetic), are around 15
14 to 18 percent below Bell Atlantic's.

15 Our cost for DSL is 25 percent below Bell
16 Atlantic's.

17 Our day-to-day offering and structure costs are
18 probably 15 to 20 percent below Bell Atlantic's.

19 And our customer service excellent delivery ratios
20 are probably some percentage points above Bell Atlantic's.

21 In other words, we're really, just because we're
22 able to focus on our rural area, doing the same job they
23 would do if they really wanted to focus on the rural area,
24 but it's our priority, it's not their main priority.

25 So as a result, we're doing a better job than they

1 would be doing in rural areas.

2 And, Commissioner Powell, I'd say that the USF
3 piece is really for us a key part of we're able to do this.

4 Thank you.

5 THE HONORABLE JACK R. GOLDBERG: Thank you,
6 Dr. Guite.

7 And, finally, our State Senator, Marge Kilkelly of
8 the State of Maine. And she's going to discuss some
9 experience that they have had on rural ---

10 MS. MARGE KILKELLY: A little tiny island.

11 THE HONORABLE JACK R. GOLDBERG: --- success
12 stories.

13 MS. MARGE KILKELLY: Thank you. Thank you for
14 opportunity to be here today.

15 I am Marge Kilkelly, I'm a state senator. I
16 represent Midcoast District in Maine that is comprised of
17 22 small towns and one year-round island.

18 My background is in community economic development
19 and my work is in rural economic development, especially as
20 it relates to stabilizing and growing our traditional
21 businesses, such as farming, commercial fishing, forestry
22 and outdoor activities, such as hunting and recreational
23 fishing.

24 For the past several years, I've been associated
25 with the Island Institute, a not-for-profit in Rockland,

1 Maine, that focuses on the quality of life on Maine's
2 14 year-round unbridged island communities.

3 Each year the Institute sponsor an Islanders
4 Conference to bring residents of the year-round island
5 communities together to share learnings and experiences with
6 each other.

7 This isn't a simple task, as the islands stretch
8 from Casco Bay in the South to Blue Hill Bay in the East and
9 many don't have daily ferry service. Once the folks are on
10 shore, it's another hour or maybe two to get to a central
11 meeting place.

12 In 1998, as I was planning my first Islanders
13 Conference, I received a call from Belinda Dollaver on Swans
14 Island. She was very concerned that the most serious
15 problem facing her island was not being addressed at the
16 conference, and that was lack of any affordable internet
17 access.

18 On four down east islands that were served by TDS,
19 all calls were mainland toll -- all calls to the mainland
20 were toll calls and all ISPs were on the mainland. The per
21 minute charge was as high as 64 cents a minute.

22 The populations on these islands range from
23 40 year-round residents to 400 year-round residents. The
24 municipalities, the businesses and residents were either
25 paying that price or not accessing the internet at all, and

1 that becomes less of an option as more and more state
2 information and forums are more readily available on-line
3 than in any other way.

4 Ms. Dollaver is a real estate agent and she was
5 faced with potential buyers who were interested in the
6 community but unwilling to purchase in a town that did not
7 have reasonably affordable internet access. This applied to
8 seasonal as well as potential year-round residents.

9 The Island Institute took on the challenge of
10 working with the communities, the telephone company and
11 others to resolve the issue. We met with folks from TDS and
12 financing specialists from USDA Rural Development.

13 There were many proposals reviewed and many of them
14 cost hundreds of thousands of dollars of equipment and
15 required folks on the islands to manage the systems.

16 The Institute even explored the idea of creating a
17 new system using wireless technology through a local
18 provider. Institute staff and folks from the provider were
19 sent to the islands by boat to determine the sight line and
20 tower height requirements to access all four islands from
21 Rockland.

22 Again, a very expensive proposal, initially but
23 the advantage of paying off the hardware, accessing grants
24 and community development funds and eventually having a
25 truly affordable system seemed positive.

1 About that time the residents of Swans filed a
2 request with the Public Utilities Commission for assistance
3 regarding the cost of service.

4 The process took on a new life at that point, and
5 TDS developed a package for the islands, that includes
6 30 hours a month for \$29 and a charge of \$1 per hour over
7 that 30. That service has been in place for just about a
8 year.

9 It's of assistance to families for personal use,
10 but it's of less assistance to business development or
11 attraction. This isn't a criticism of the company, but an
12 acknowledgment of the challenges of serving these small
13 isolated communities.

14 In preparing for this meeting, I contacted a few
15 of the folks that are now on-line who had not been on-line
16 before, to determine how it's working, and wanted to give
17 you some personal stories to add to all we've heard about
18 today from business plans and statistics and other things.

19 Both women I talked to are from Frenchboro, Long
20 Island. Frenchboro is a small island with approximately
21 40 year-round residents. There's a ferry three times a week
22 and any time you come off the island by ferry, it's at least
23 one day before you can get back on.

24 There are no stores on the island. There's a post
25 office, a school with two students this year and a library

1 which is open only in the summer. It is a wonderful
2 community filled with families who have lived there for
3 generations and families who came as soon as they could.
4 The primary income is from lobster fishing.

5 I served on the Frenchboro Future Development
6 Corporation Board for two years. This group has created a
7 land trust and built several houses to rent and lease to
8 purchase for families interested in moving onto the island.

9 One of the major barriers to having families move
10 to the island and stay is isolation. While the men are
11 active in lobster fishing, the women who might want to
12 operate a business take college courses or telecommute are
13 unable to do so.

14 Obviously, the current situation is an improvement
15 over the past, but it can be better.

16 Maine has lost most of its year-round island
17 communities since the turn of the century, and the current
18 communities are working diligently to sustain themselves.

19 Access to technology is a key factor in whether or
20 not they will be successful.

21 This particular community represents Maine rural
22 living at its finest and most challenging. Folks live here
23 because it represents a quality of life that's impossible to
24 capture anywhere else. The lobstering is good, creates good
25 employment, beautiful harbors and bays, fir forests and a

1 close-knit community that cares about one another.

2 The families on these islands want their children
3 to grow up and have every option and advantage that any
4 other child would have, and that includes access to
5 technology.

6 Loreena Beal is on the school board and is also
7 the postmaster. Her family went on-line as soon as it was
8 available. Her husband is a fisherman and she's the mother
9 of two children, a fourth grader and a four-year old. The
10 30-hour a month limit works for her family, now, but her
11 biggest concern is that when her younger child is in school
12 and the older child is up in school, that there won't be
13 enough time and she'll have to limit that.

14 But as a school board member, she now can receive
15 all the material from the superintendent's office by e-mail
16 and she can communicate with them on-line, as well, which
17 has been of great assistance to her and her volunteer work
18 for the community.

19 Rachel Bishop is the mother of a five-year old.
20 She was the first person to get on-line when the service
21 became available. As she has no extended family on the
22 island, the on-line connection is essential to her ability
23 to communicate with her family, either in Maine or other
24 parts of the country. She, also, now can stay in touch with
25 many of the seasonal residents of the island.

1 Rachel is a certified teacher, and although she is
2 not currently teaching, she wants to maintain her
3 certification. In order to do this, she must take
4 continuing education classes. If she took them on the
5 mainland, it would mean staying in-shore overnight at least
6 one night for every class. She's now able to access on-line
7 courses.

8 The 30 hours a month is an issue for her, but
9 still more inexpensive than travel and accommodations. Her
10 husband did not use the computer at the library at all, but
11 now they have access from their home and he's also on-line.
12 This works well around his fishing schedule, while the
13 library connection didn't.

14 Some folks on the island are not doing so well. A
15 retired profession who is assisting in some research on
16 alternative lobster bait is quite hampered by the expensive
17 access. He finds numerous ways to communicate, but at times
18 the focus is more on how to communicate and not on the
19 substance of what he's communicating, and that results in a
20 considerable loss of productivity.

21 I'm even more concerned about the folks who choose
22 not to live on the island or other rural isolated areas
23 because they cannot have reasonable access to internet
24 services. One of the major advantages of being on-line is
25 the option of telecommuting or operating a business on-line.

1 This should be a great advantage to rural isolated
2 communities, but in fact it has caused some of them to
3 become more isolated, not less.

4 If you have a choice to live in a community that
5 has unlimited internet access and one that does not, which
6 will you choose for your business?

7 Sprawl is major issue in Maine, as in other
8 states. If people who want to live in a rural environment
9 feel forced to move to areas around urban communities in
10 order to have adequate access to technology for their
11 businesses or families, then sprawl is the result. Former
12 greenbelts become housing developments. Farmland, open
13 space and wildlife habitat are lost. Creating or supporting
14 improved opportunities for on-line service in rural isolated
15 areas would decrease this pressure.

16 The island had some advantages in resolving their
17 access problem.

18 First, those islands, their isolation was so
19 obvious that there was no question about its seriousness.

20 Second, they had an advocacy group to focus on
21 their plight.

22 And, third, they had folks like Belinda Dollaver,
23 who after five years of frustration, still would not take no
24 for an answer.

25 Well, what about the other rural areas where

1 either low population density or some of the small
2 independent phone companies create the same barrier that we
3 saw here?

4 Rural economies are fragile. Public policy,
5 especially federal policy, must prioritize access to the
6 internet for these communities, island and mainland, in the
7 same way they took on the challenge of rural electrification
8 and telephone services in years past. The issues are the
9 same, but the technology is different.

10 Infrastructure development must equate internet
11 access with road, rail and port construction improvements.
12 All are important, actually essential to maintaining a
13 diverse, healthy rural economy, and our total economy, like
14 any other system, is only as strong as our weakest link.

15 The solutions to adequate access to technology for
16 rural areas need to be developed by rural people. For too
17 many years we've been asked to whittle down the edges of our
18 problems to fit urban solutions. It hasn't worked before
19 and it's unlikely to in this case.

20 So I ask that a special effort be made to identify
21 unserved and underserved communities and populations, to
22 enlist local people in the development of the solutions to
23 help identify their needs.

24 A willingness to accept that in the same way that
25 the government can help the moving of people and goods into

1 rural areas by roads, there may need to be help moving
2 information through affordable internet access, and it can
3 be essential.

4 Last fall I was in Southern Hungary and I visited
5 a small town, 5,000 people, where through it, arrangement
6 with the mayor and a business, they've been able to create
7 access for every home in the village. When he talked about
8 that project and showed me the education program for it, he
9 said, we're trying to catch up with the West.

10 He was looking to the West, and assuming that all
11 of us were moving forward at the same pace. And I'm just
12 offering to you the thought that there are a lot of us that
13 aren't moving forward at the same rate and we need to pay
14 attention to those people, as well.

15 When we talk about 10 or 20 percent of the people
16 not having access, we're talking about real people in real
17 communities and real families and we need to pay attention
18 to their needs.

19 Thank you very much.

20 THE HONORABLE JACK R. GOLDBERG: Thank you,
21 Senator.

22 Your talk was a good reminder that while much of
23 what we hear has to policy that affects many people at the
24 40,000-foot level. Real people are really affected.

25 We'll begin with questions, now, and I'll start

1 with Commissioner Powell.

2 THE HONORABLE MICHAEL K. POWELL: I guess I've got
3 to come up with a question.

4 THE HONORABLE JACK R. GOLDBERG: You better. I
5 want to see how good you are.

6 THE HONORABLE MICHAEL K. POWELL: It's useful to
7 finish with a panel about rural success, but it's also kind
8 of interesting to go back to the beginning.

9 I've read a lot of analyst reports and academics.
10 They seem to always to conclude with some certainty that
11 won't work.

12 You all are a fitting contradiction, somehow.

13 Someone earlier mentioned that MMDS is not going
14 to come unless MCI, Worldcom and Sprint can consummate the
15 largest merger in the world.

16 But, yet, I'm sitting here, introduced to someone
17 who is attempting to do it at a much smaller scale, I would
18 assume. Your 50 customers would pale in comparison to the
19 scale efficiencies of that merger.

20 I would invite all of you to say something about
21 that. I mean, you've made a lot of emphasis about the
22 demand will be no different, and probably even in some
23 instances greater than it might be in other communities that
24 have other alternatives to some of these services.

25 And I know the capital constraints. You mentioned

1 quite eloquently the challenge to them, but you're doing
2 them. And I'm sort of curious, you know, what your response
3 is to the seeming dismissal in some circles of the ability
4 of small carriers to serve these communities.

5 That's a wide open question.

6 Was that good enough?

7 THE HONORABLE JACK R. GOLDBERG: That was fine.

8 THE HONORABLE MICHAEL K. POWELL: All right. You
9 made me proud.

10 DOCTOR DAVID BONNER: I think one of the things
11 that we learned and probably that Bell Atlantic learned is
12 it's surprising what the market really is.

13 In our area, when we first started with the
14 diffusion project, folks said, well, you'll never sell all
15 those lines, you'll never use all those lines.

16 In five months the Adirondack Area Network placed
17 as many lines as Bell Atlantic had the previous five years
18 in our area. It kind a drives home the marketing. If they
19 go and they ask each individual institution, they're going
20 to say, well, no, we can't afford it at that rate.

21 But if, again, going back to this same theme, if
22 you aggregate and pool your customers together, it's
23 surprising what a real market there is out there. If you go
24 individually, of course, you're not going to see a large
25 market.

1 So I think that's a lesson learned that really
2 could come to that point, in that just knowing what the
3 rural population needs, much as we just heard down here, it
4 may be simple. But if you leave it up to the big companies
5 to try and find a uniform policy, I think it's going to be
6 very difficult to do.

7 MR. RODERICK N. ANSLEY: I'd like to speak to the
8 end portion of your question.

9 I also heard the comment about MCI, Worldcom and
10 Sprint. I thought, what do they know that we don't know?

11 Not long ago, I used to work for Frontier, which
12 is now Global Crossing, as a result of a merger, and I was
13 one of 9,000 employees in a company that was still a peanut
14 compared to MCI, Worldcom.

15 And the difference between 9,000 employee and
16 80 employees is pretty substantial in how the company works.

17 We made our decision to invest in DSL technology
18 with two people in my office and an EXCEL spreadsheet in
19 20 minutes. That's the way we did it. It cost us probably
20 a hundred dollars to make that decision, and we went
21 forward, and we spent a lot more money and a lot more time
22 in the MMDS decision; but nevertheless it was probably
23 nothing compared to what a large company would spend.

24 What I'm getting at here is that our cost
25 structure is incredibly lower and we're currently closer to